



Fig.1

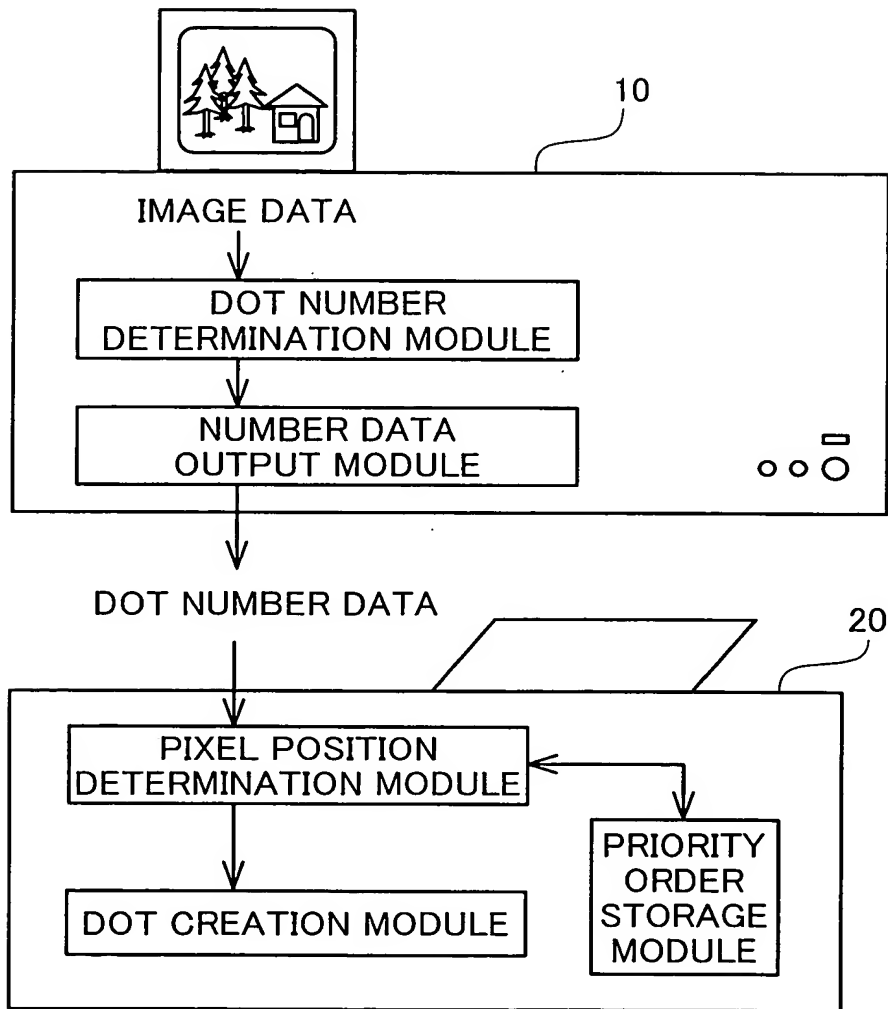
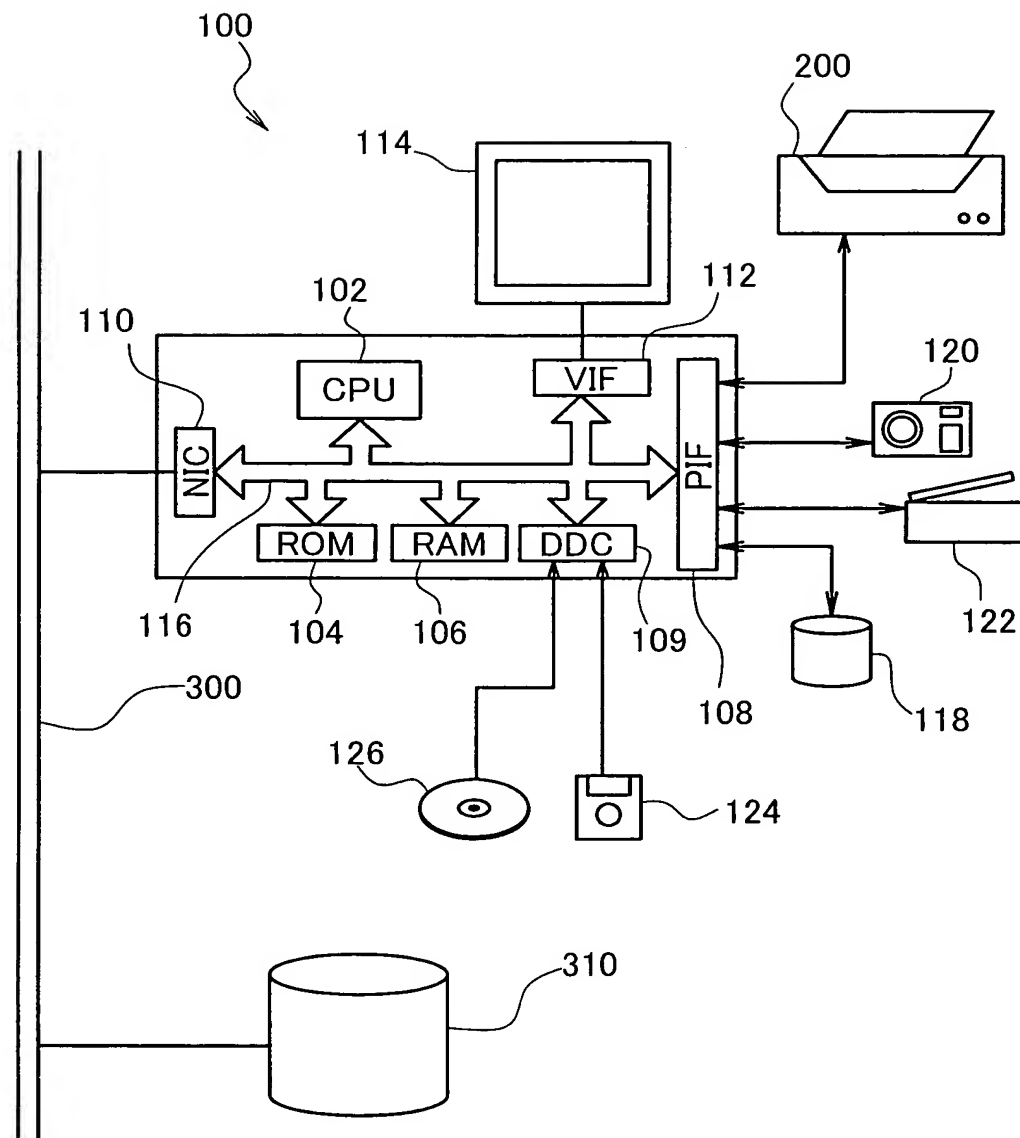


Fig.2



The diagram illustrates a control system for a scanning device. At the top, a control unit (259) is connected to a main control block (260). The main control block (260) contains a CPU, PIF (Peripheral Interface), D/A (Digital-to-Analog), ROM (Read-Only Memory), RAM (Random Access Memory), and a BUFFER. The BUFFER is connected to the CPU and the D/A. The CPU is connected to the PIF, D/A, ROM, and RAM. The PIF is connected to the CPU, D/A, ROM, and RAM. The D/A is connected to the CPU, PIF, and the scanning mechanism (240). The ROM is connected to the CPU, PIF, and the scanning mechanism (240). The RAM is connected to the CPU, PIF, and the scanning mechanism (240). The scanning mechanism (240) includes a main scanning unit (241) and a sub-scanning unit (242). The main scanning unit (241) is connected to the D/A, ROM, and RAM. The sub-scanning unit (242) is connected to the D/A, ROM, and RAM. The scanning mechanism (240) is connected to a paper (P) and a sensor (235). The sensor (235) is connected to the CPU, PIF, D/A, ROM, and RAM. The paper (P) is scanned in the main scanning direction (indicated by a horizontal arrow) and the sub-scanning direction (indicated by a vertical arrow). The scanning mechanism (240) is labeled with various components: 230, 231, 232, 233, 234, 235, 236, 240, 241, 242, 243, 244, 245~247, and 248.

Fig.4

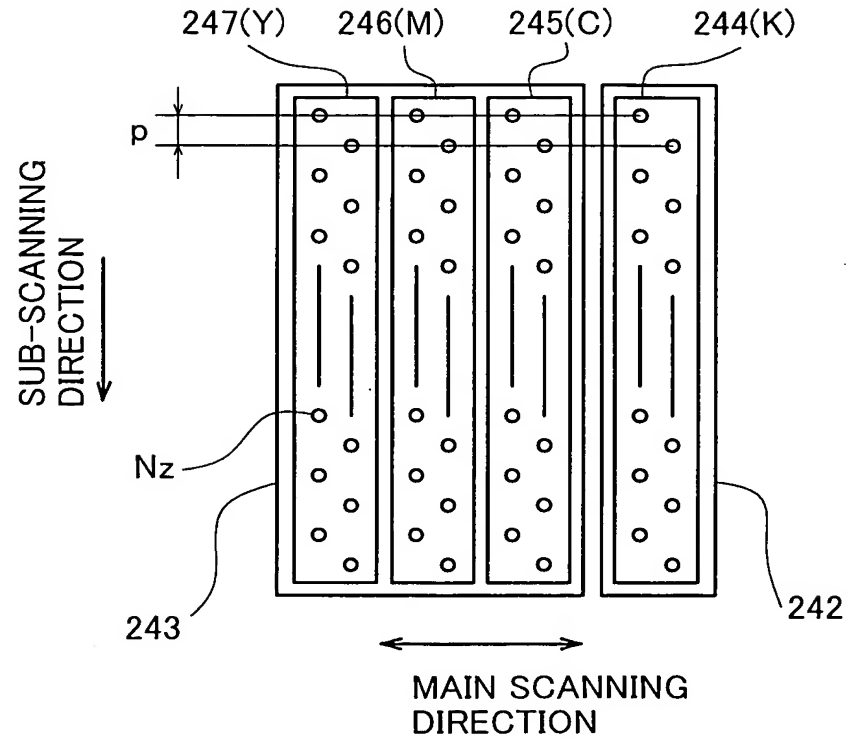
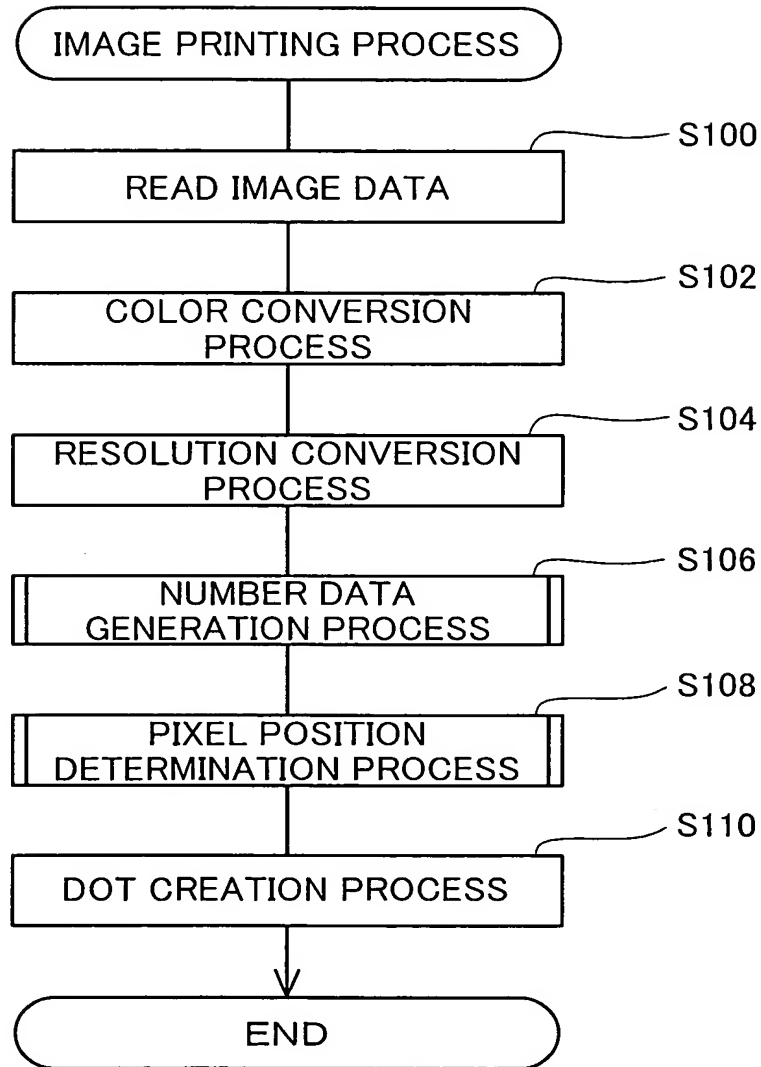


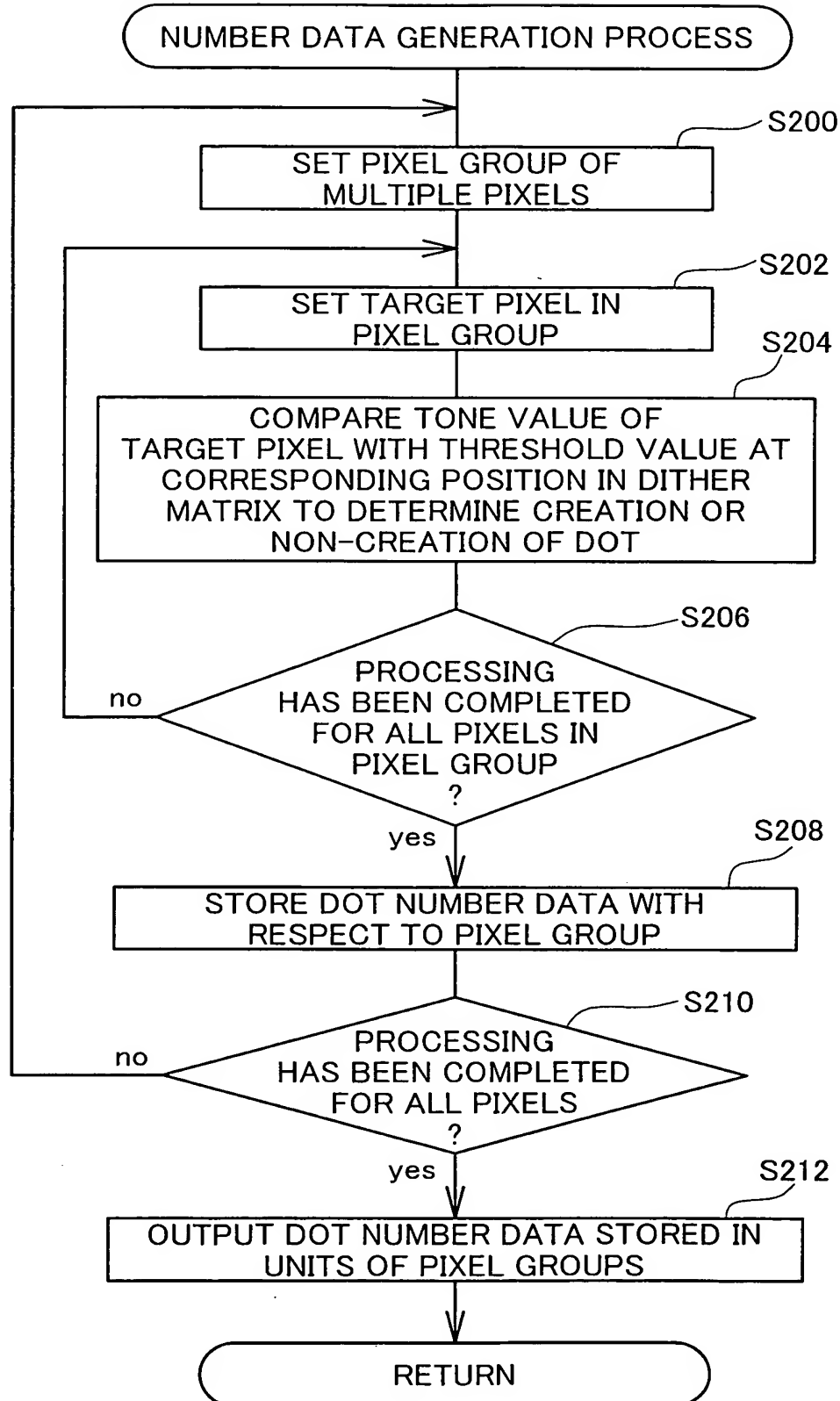
Fig.5



97	102	104	
94	99	101	
92	96	99	

97	97	97	97	102	102	102	102	104	104	104	104
97	97	97	97	102	102	102	102	104	104	104	104
94	94	94	94	99	99	99	99	101	101	101	101
94	94	94	94	99	99	99	99	101	101	101	101
92	92	92	92	96	96	96	96	99	99	99	99
92	92	92	92	96	96	96	96	99	99	99	99

Fig.7



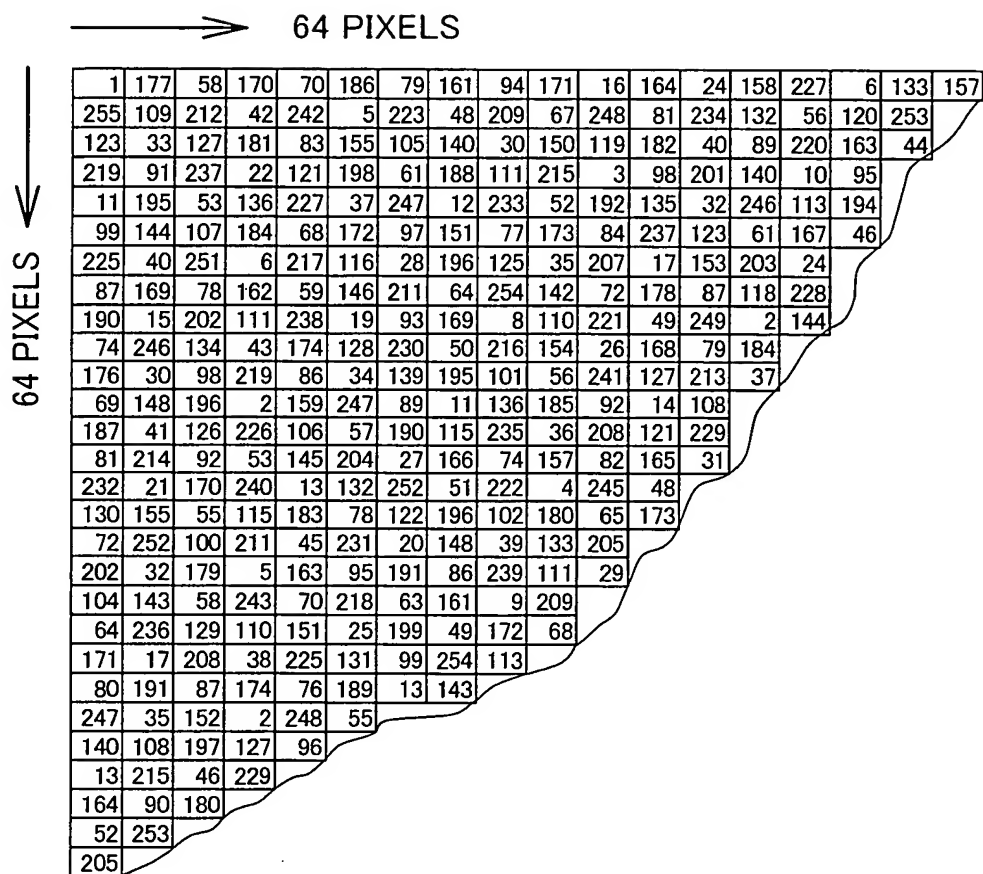




Fig.9

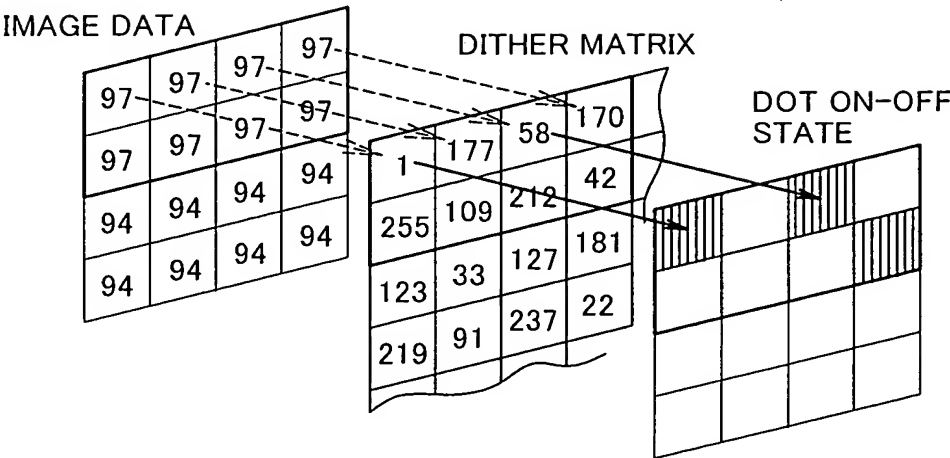


Fig.10(a)

3	4	4	
3	2	3	
2	3	3	

Fig.10(b)

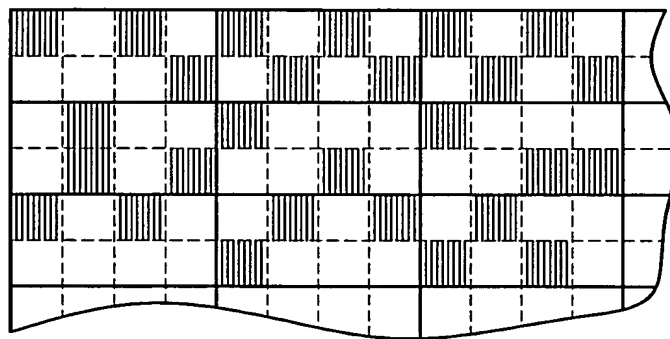
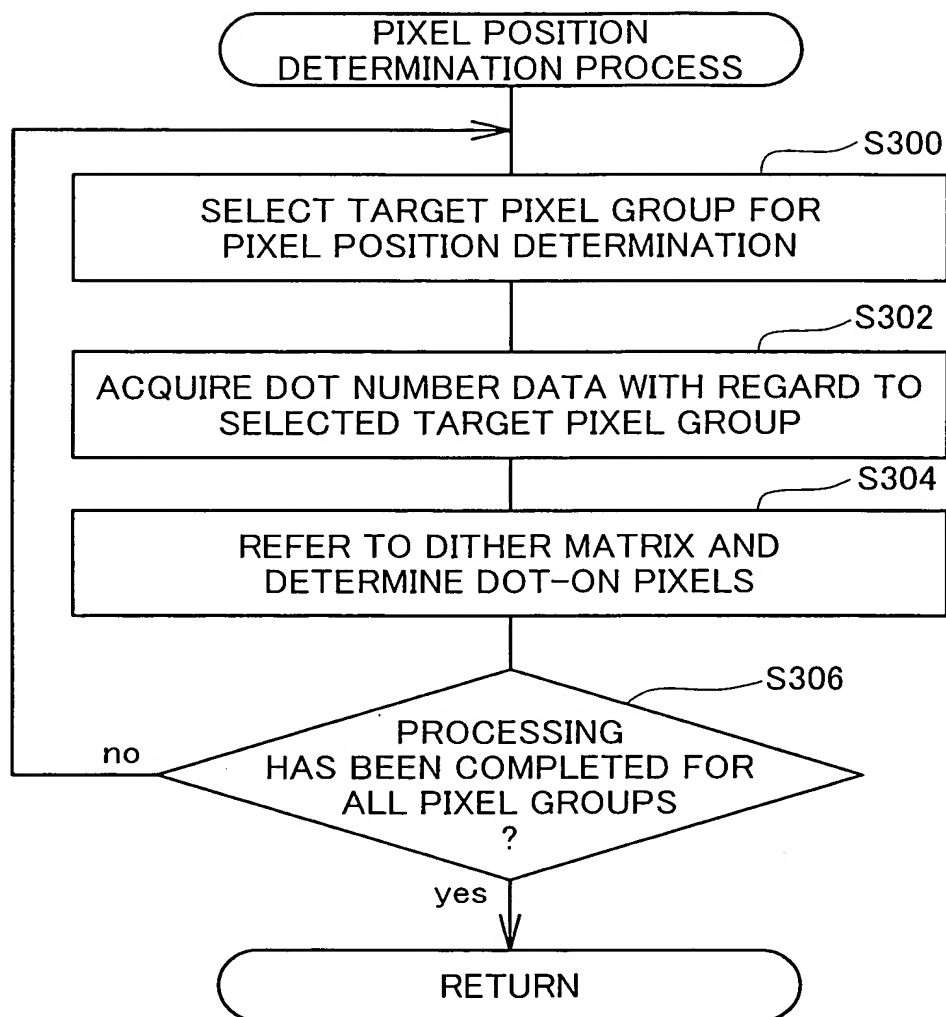


Fig.11



3	4	4
3	2	3
2	3	3

1	177	58	170
255	109	212	42

1	177	58	170
255	109	212	42

Fig.13(a)

255,212,177,170, 109, 58, 42, 1	242,223,186,161, 79,70,48,5	248,209,171,164, 94,81,67,16	
237,219,181,127, 123,91,33,22	198,188,155,140, 121,105,83,61	215,182,150,119, 111,98,30,3	
195,184,144,136, 107,99,53,11	247,227,172,151, 97,68,37,12	237,233,192,173, 135,84,77,52	

Fig.13(b)

255,212,177,170, 109,[58, 42, 1]	242,223,186,161, [79, 70, 48, 5]	248,209,171,164, [94, 81, 67, 16]	
237,219,181,127, 123,[91, 33, 22]	198,188,155,140, 121,105,[83, 61]	215,182,150,119, 111,[98, 30, 3]	
195,184,144,136, 107,[99, 53, 11]	247,227,172,151, 97,[68, 37, 12]	237,233,192,173, 135,[84, 77, 52]	

Fig.13(c)

3	4	4	
3	2	3	
2	3	3	

1	6	3	5
8	4	7	2
4	2	5	6
7	3	8	1
1	8	2	5
3	6	4	7

1	6	3	5	3	6	4	5
8	4	7	2	8	1	7	2

Fig.15

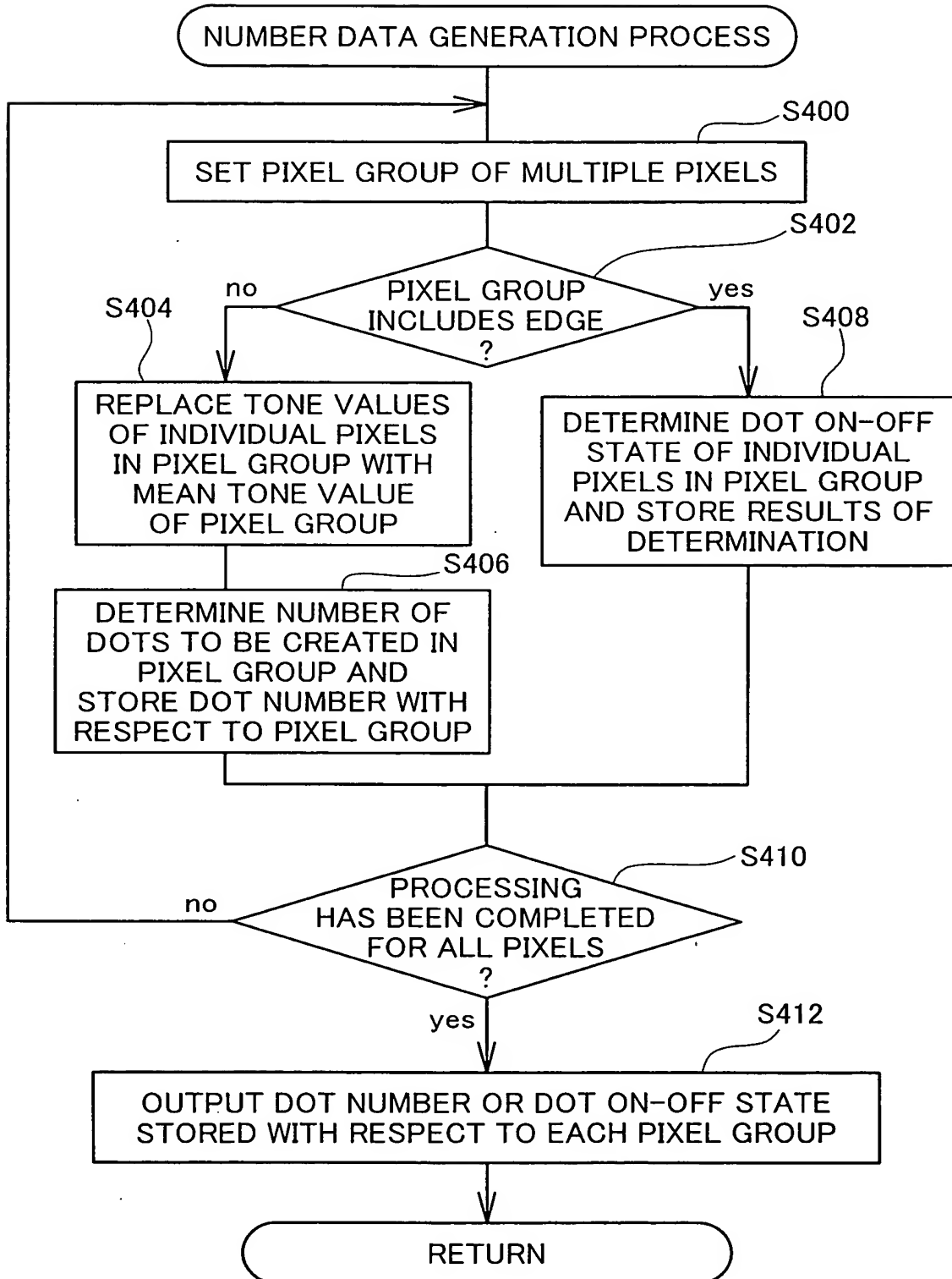


Fig.16(a)

97	100	97	99	102	104	101	103
98	99	100	98	103	102	104	101
94	96	95	93	99	102	129	130
93	95	94	94	101	100	132	131

Fig.16(b)

99	103
94	99 102 129 130
	101 100 132 131



Fig.17(a)



Fig.17(b)

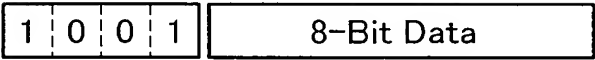


Fig.17(c)



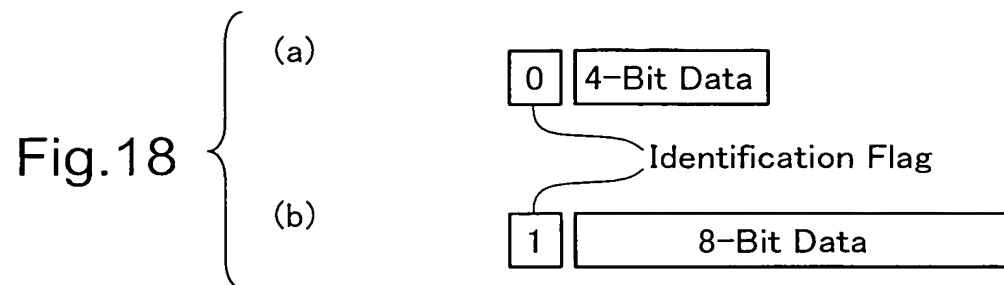


Fig.19

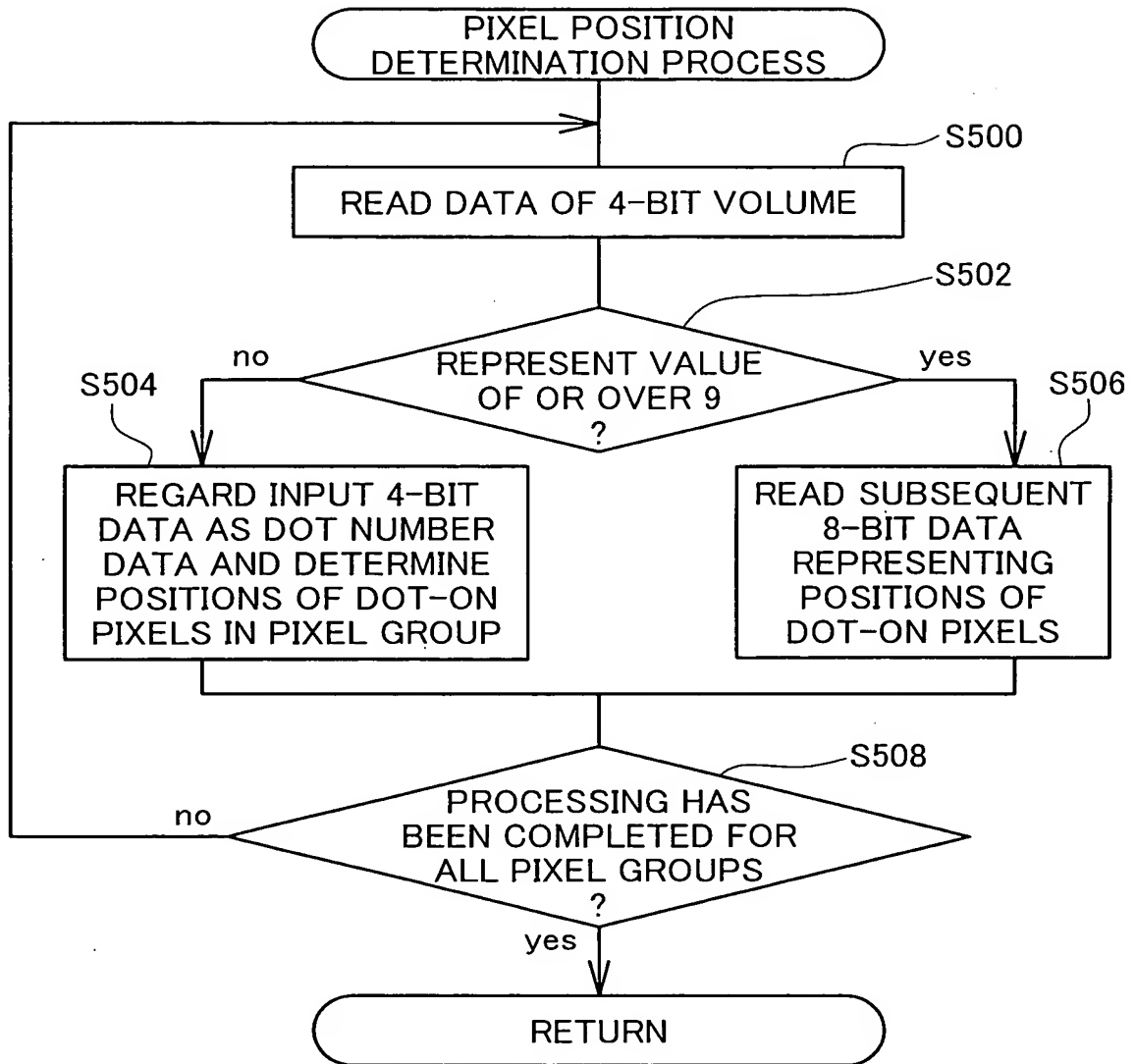


Fig.20

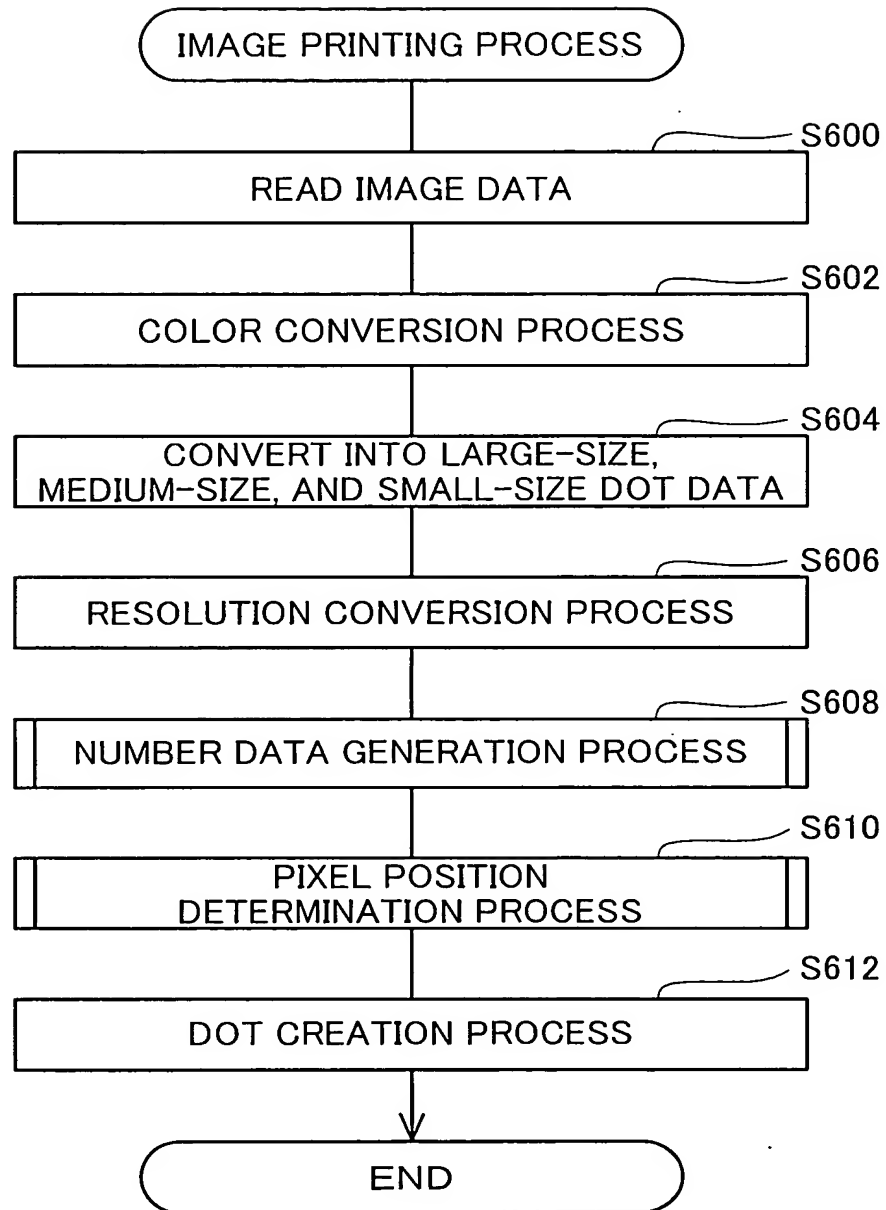


Fig.21

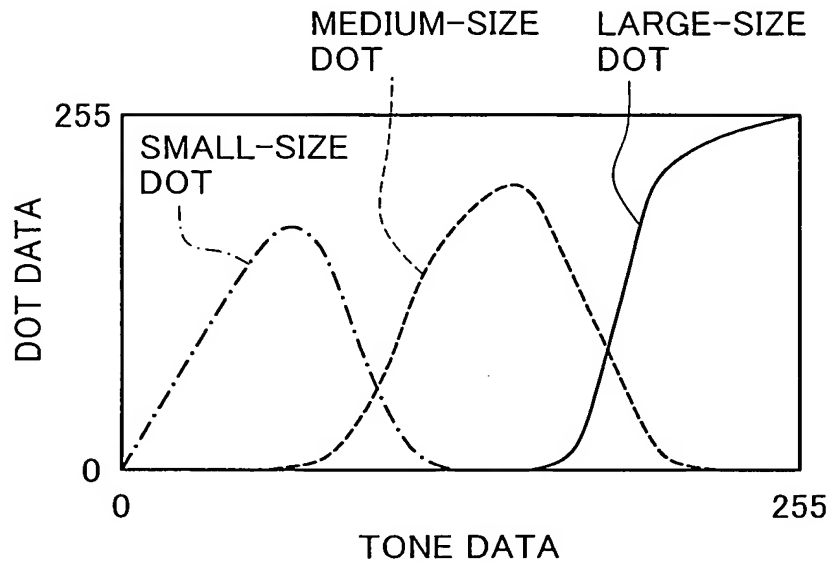


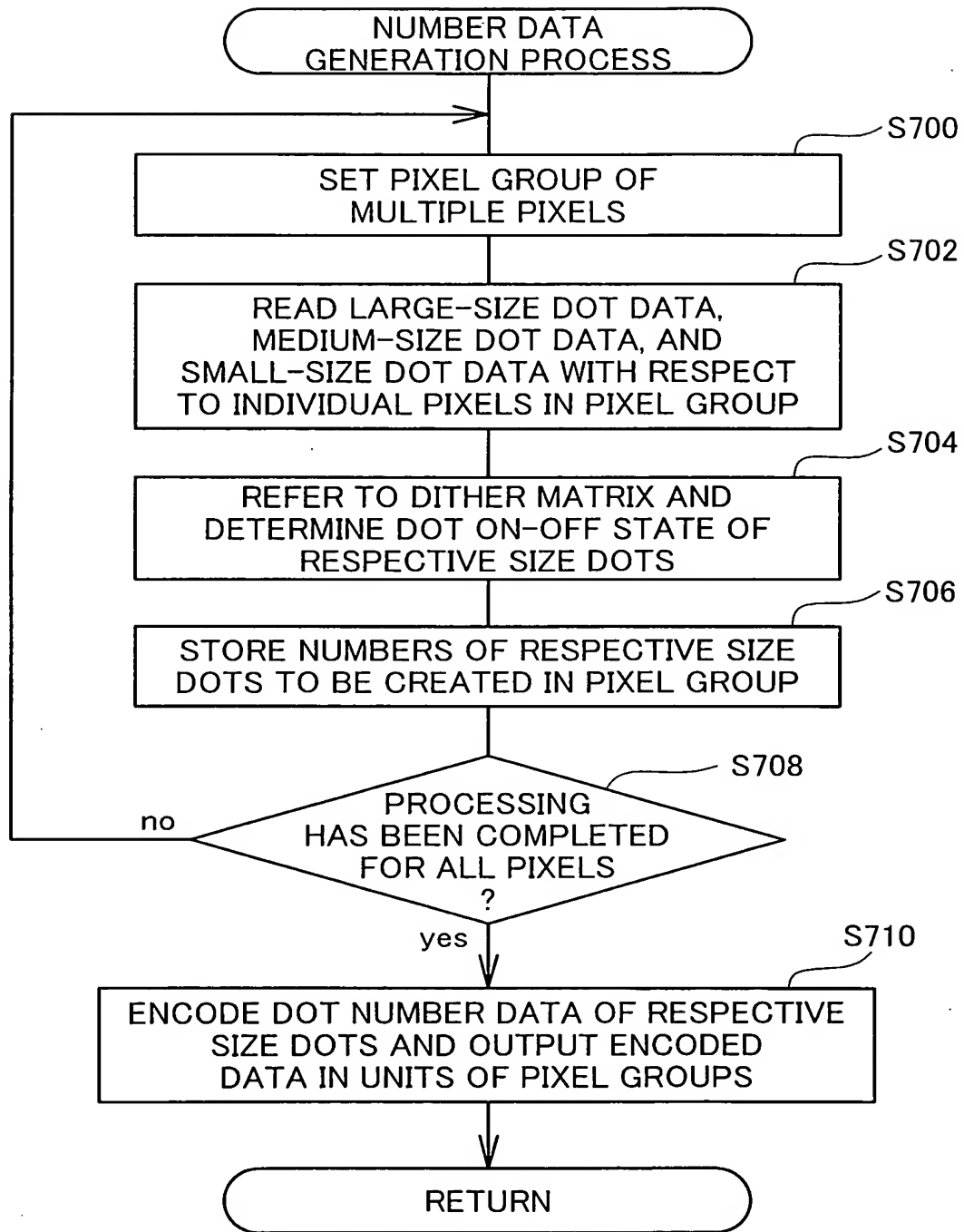
Fig.22(a)

Data(L,M,S) =(2,90,32)	(0,90,40)	(0,85,50)	
(0,92,28)	(5,80,32)	(10,50,32)	
(5,85,52)	(15,60,43)	(20,70,32)	

Fig.22(b)

Dot(L,M,S) =(1,2,1)	(0,4,0)	(0,3,1)	
(0,3,0)	(0,2,1)	(1,1,0)	
(0,2,3)	(1,2,1)	(0,3,0)	

Fig.23



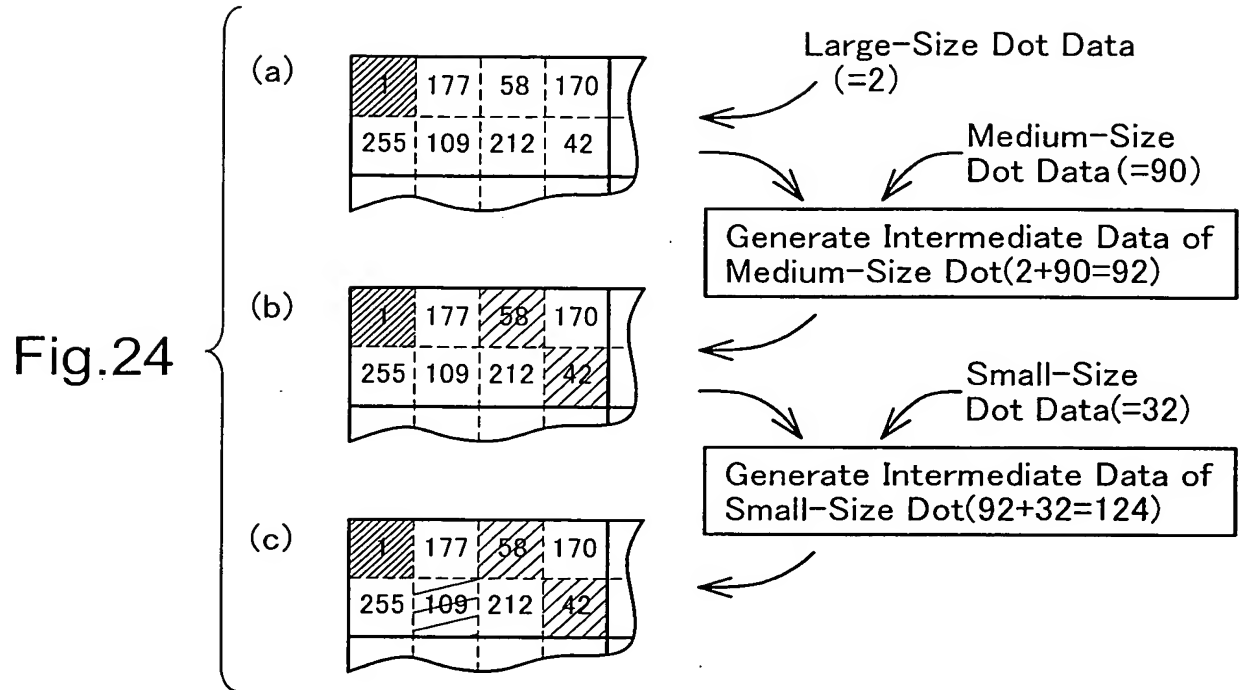




Fig.25

Dot Numbers			Code Number
Small-Size Dot	Medium-Size Dot	Large-Size Dot	
0	0	0	0
1	0	0	1
2	0	0	2
3	0	0	3
0	2	6	161
0	0	7	162
1	0	7	163
0	1	7	164
0	0	8	165

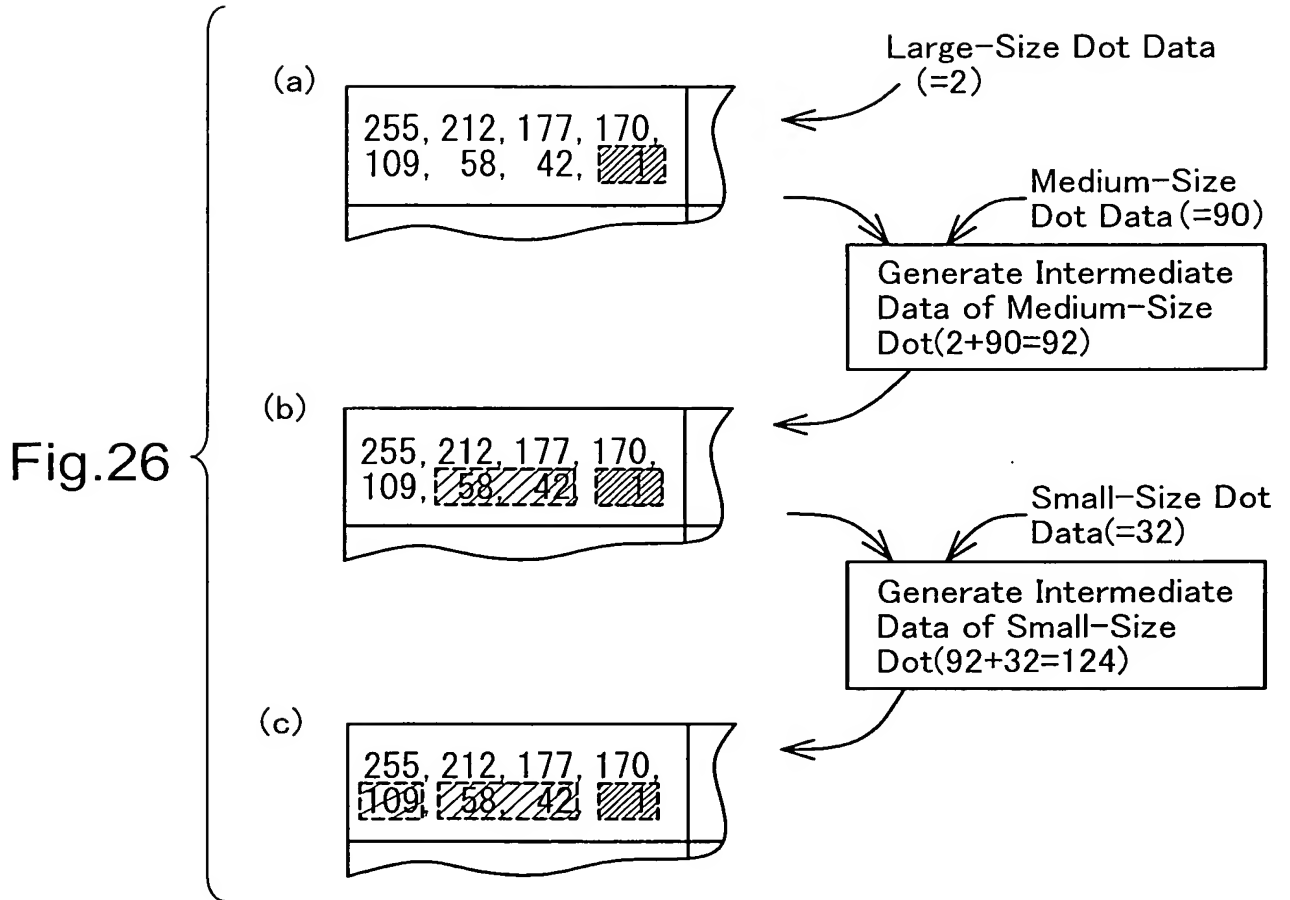


Fig.27

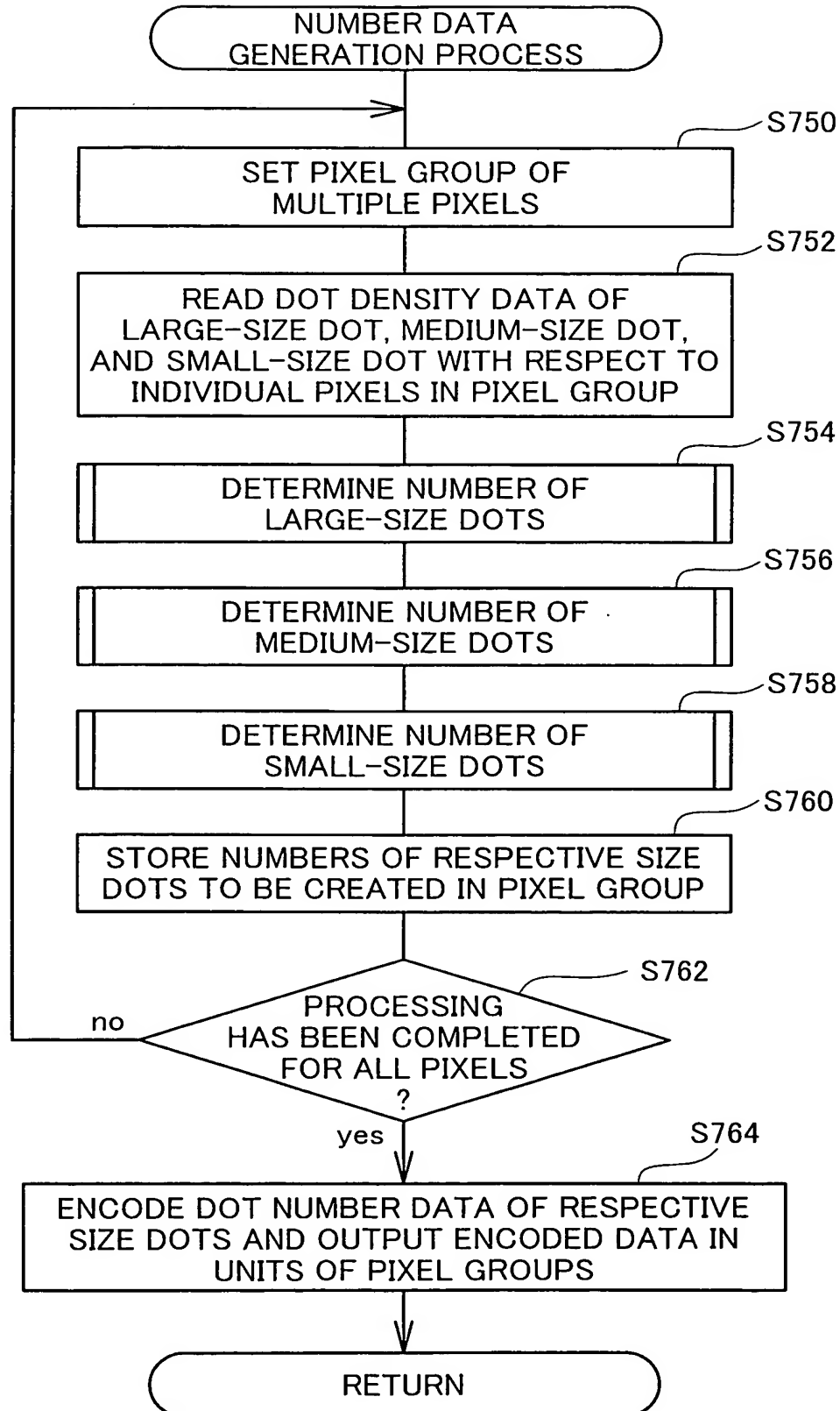


Fig.28

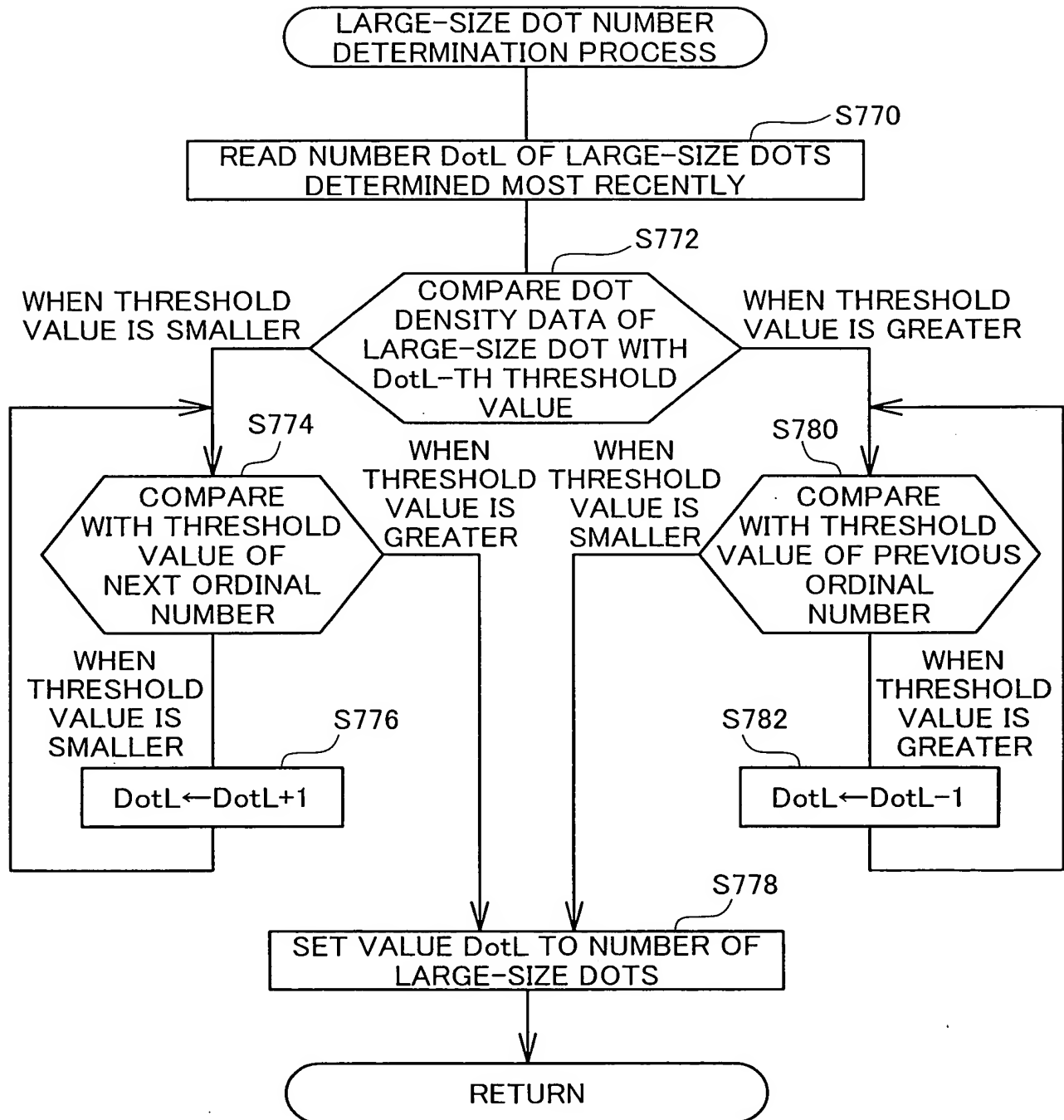


Fig.29

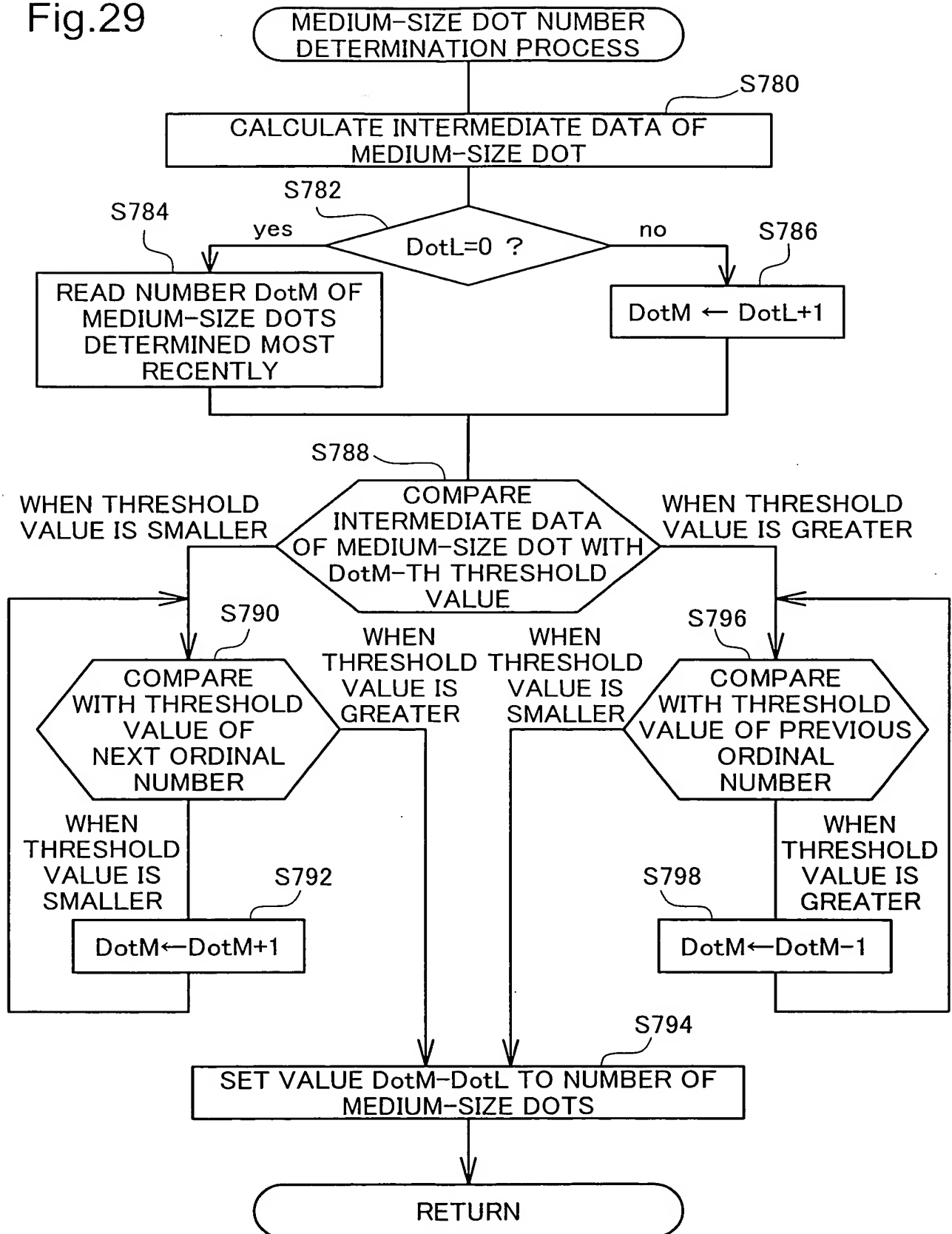


Fig.30

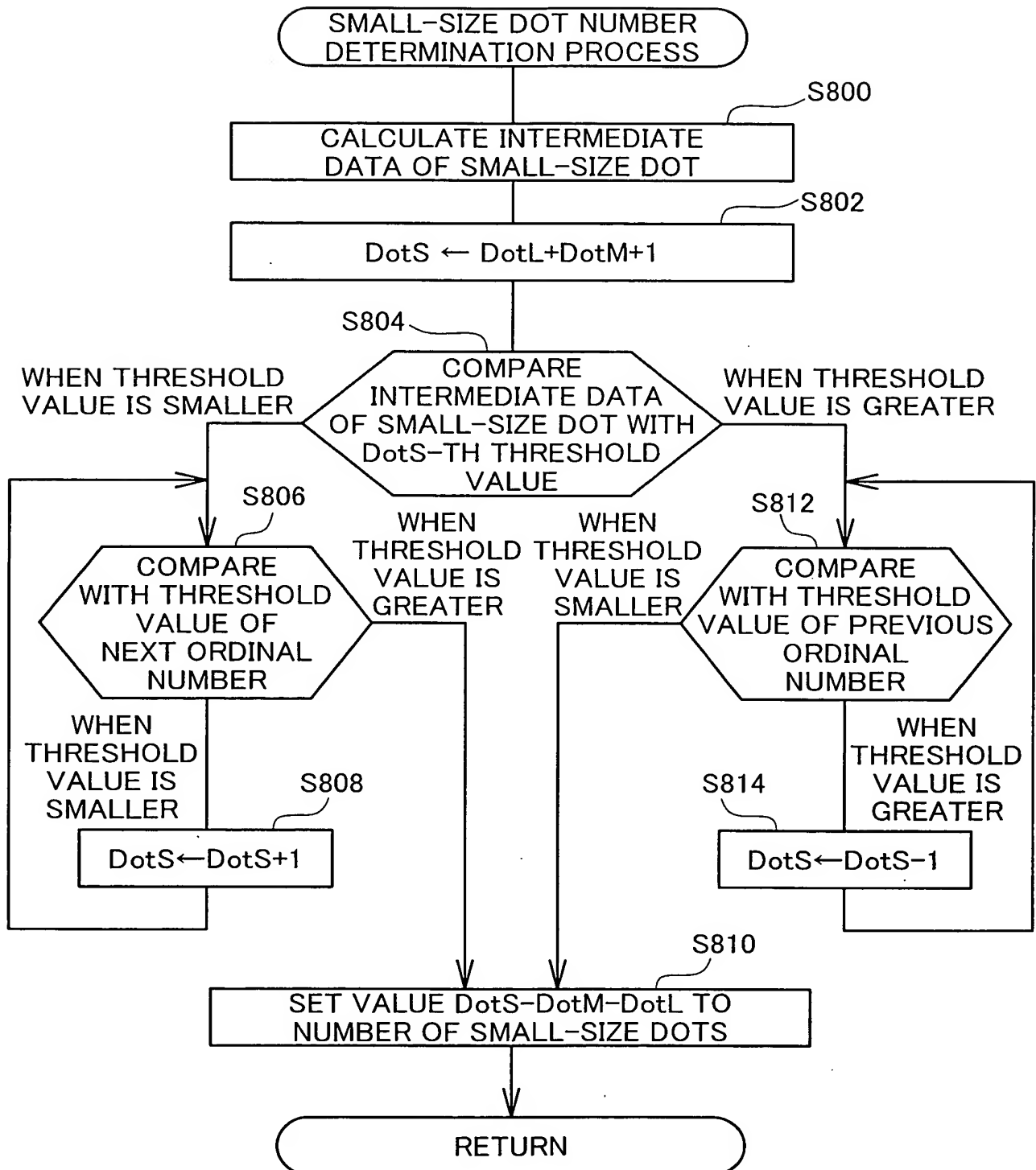


Fig.31

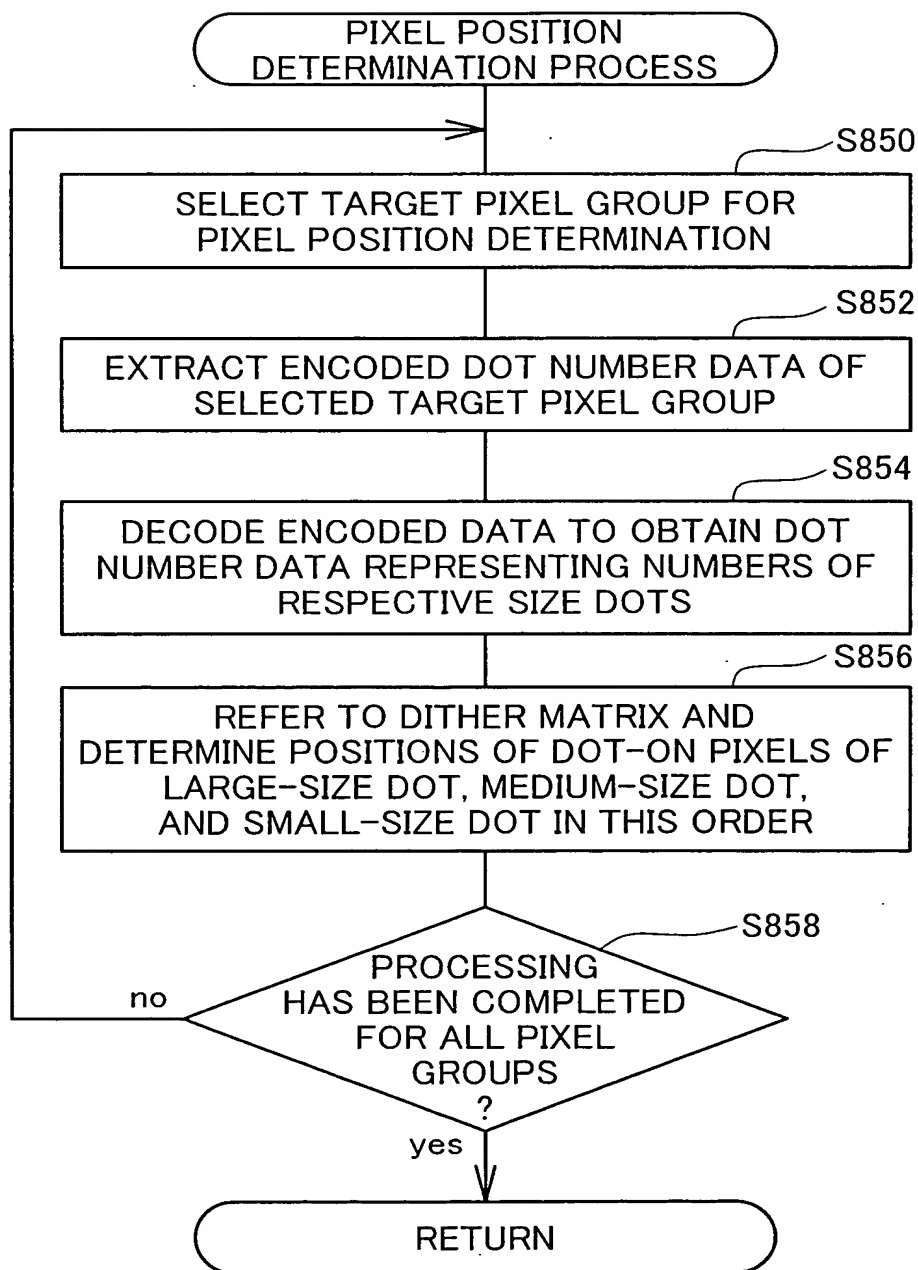


Fig.32

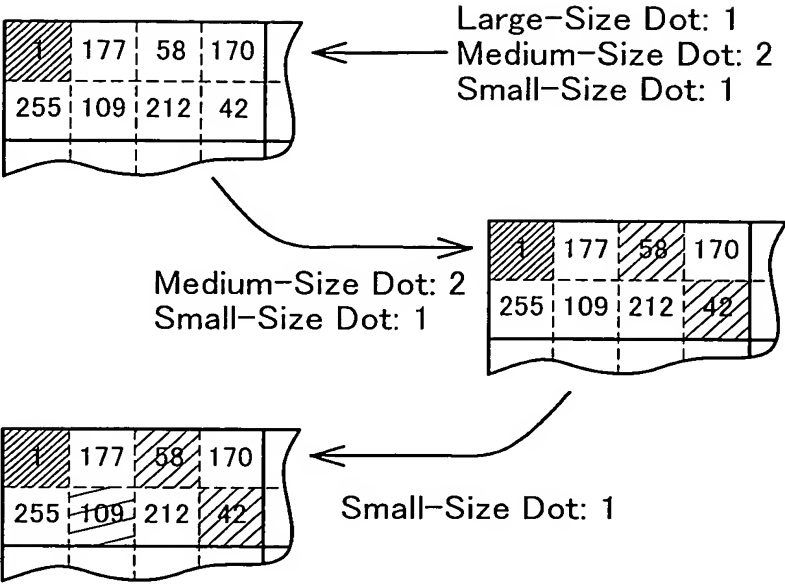




Fig.33

Code Number	Dot Numbers		
	Large-Size Dot	Large-Size Dot + Medium-Size Dot	Large-Size Dot + Medium-Size Dot + Small-Size Dot
0	0	0	0
1	0	0	1
2	0	0	2
3	0	0	3
161	6	8	8
162	7	7	7
163	7	7	8
164	7	8	8
165	8	8	8

Fig.34

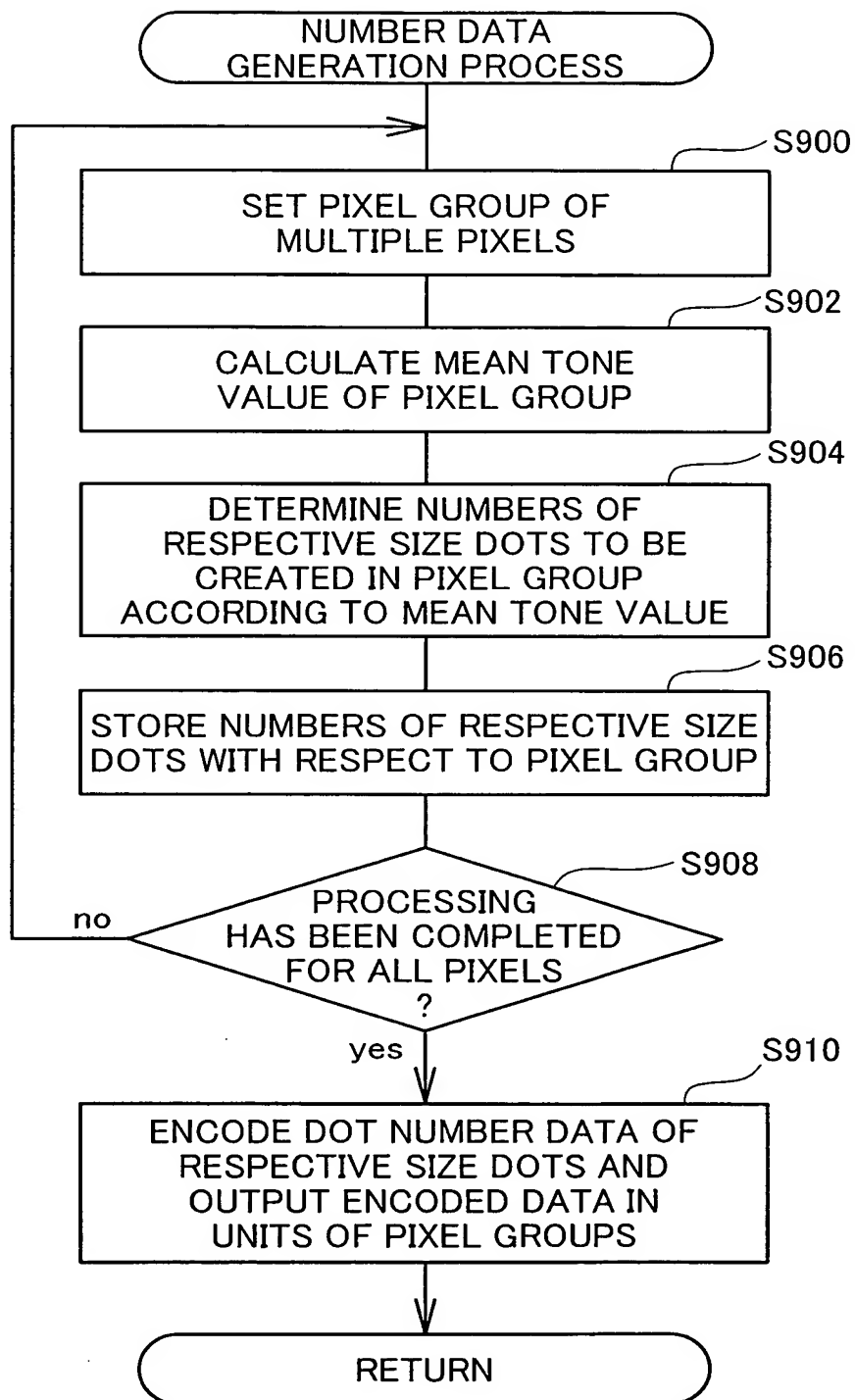


Fig.35

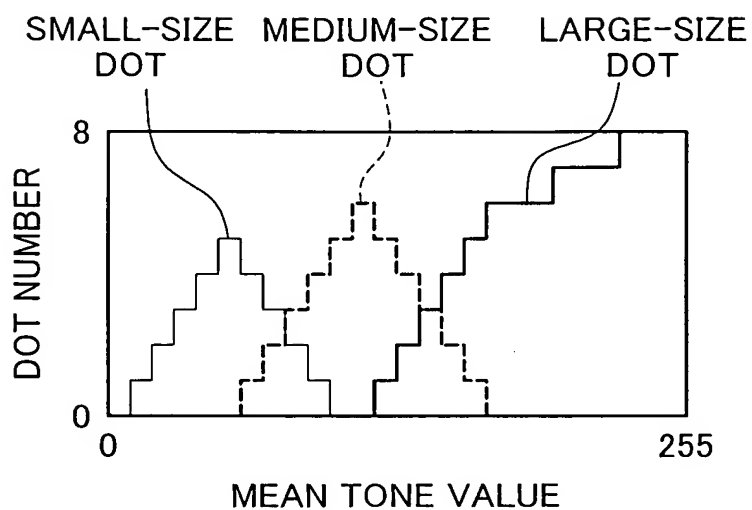


Fig.36

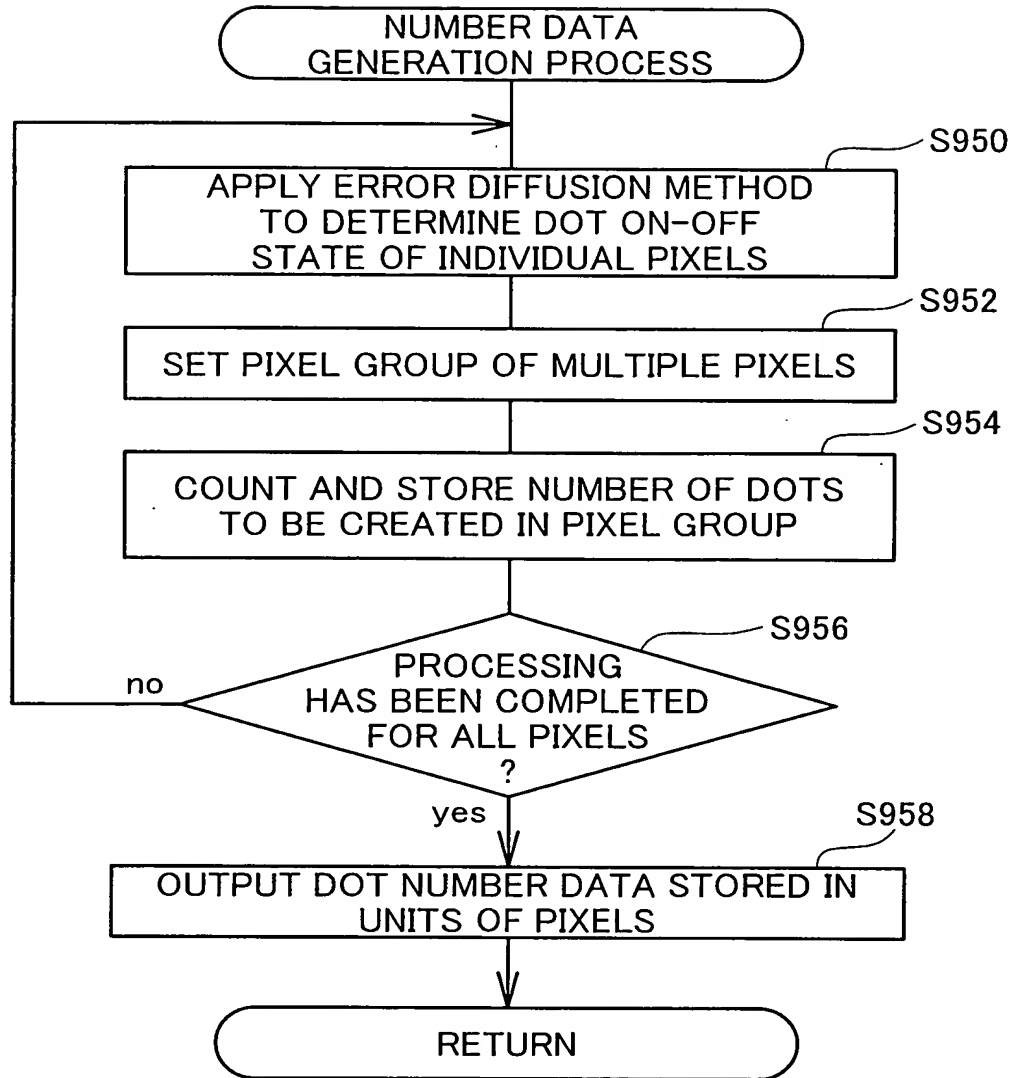


Fig.37

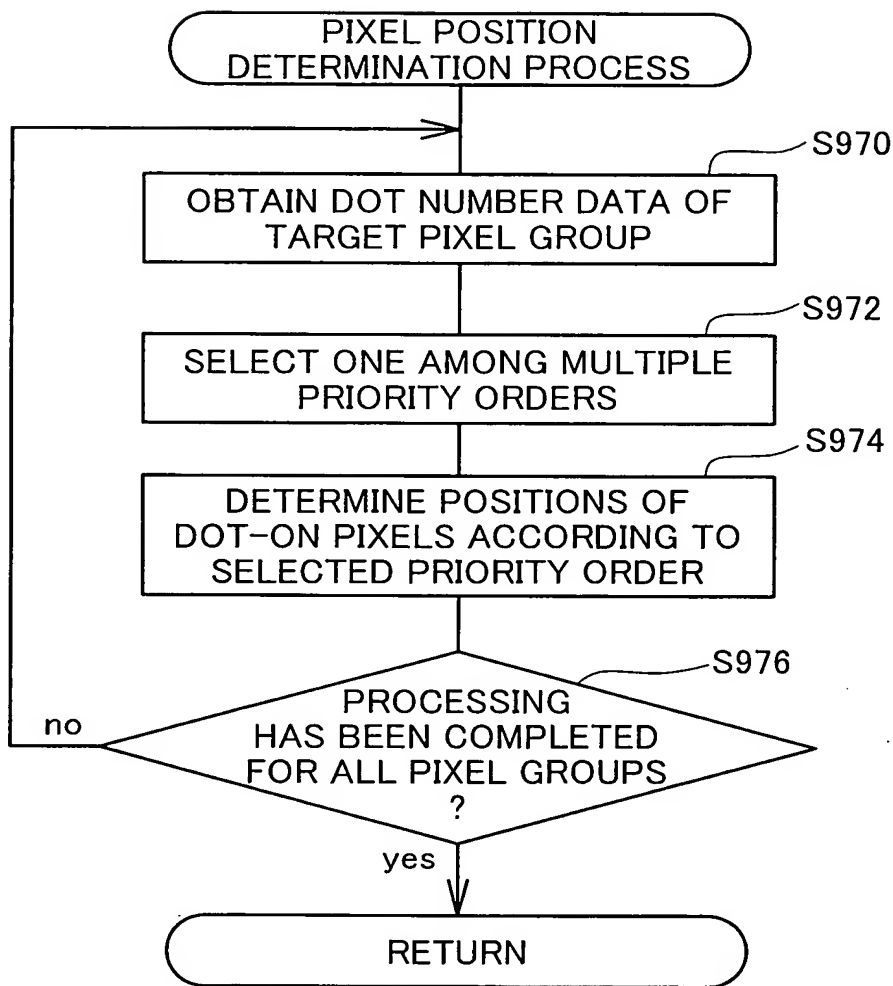


Fig.38

